

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006932

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J27/16 B01J27/182 B01J35/10 B01J37/03 C10G49/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01J C10G C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 529 923 A (UOP INC) 3 March 1993 (1993-03-03) the whole document	1-14, 23-27
A	EP 0 748 652 A (ENIRICERCHE SPA) 18 December 1996 (1996-12-18) claims 8,9,11,16-18	15-22
A	US 4 430 252 A (RYU JI-YONG) 7 February 1984 (1984-02-07)	
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 05, 3 May 2002 (2002-05-03) & JP 2002 028491 A (CATALYSTS & CHEM IND CO LTD), 29 January 2002 (2002-01-29) abstract	
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

13 September 2004

Date of mailing of the international search report

22/09/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 1 101 813 A (ENITECNOLOGIE SPA ;AGIP PETROLI (IT)) 23 May 2001 (2001-05-23) cited in the application</p>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006932

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0529923	A	03-03-1993	US 5139989 A	18-08-1992
			AU 650560 B2	23-06-1994
			AU 2130192 A	04-03-1993
			CA 2076607 A1	01-03-1993
			DE 69205373 D1	16-11-1995
			DE 69205373 T2	21-03-1996
			EP 0529923 A1	03-03-1993
			ES 2078661 T3	16-12-1995
			ID 1047 B	29-10-1996
			US 5230789 A	27-07-1993
EP 0748652	A	18-12-1996	IT MI951283 A1	16-12-1996
			CN 1138566 A ,B	25-12-1996
			EA 960031 A2	31-12-1996
			EP 0748652 A1	18-12-1996
			JP 9077513 A	25-03-1997
			US 6638888 B1	28-10-2003
US 4430252	A	07-02-1984	CA 1205450 A1	03-06-1986
			EP 0111998 A1	27-06-1984
			JP 59105847 A	19-06-1984
			US 4560790 A	24-12-1985
JP 2002028491	A	29-01-2002	NONE	
EP 1101813	A	23-05-2001	IT MI992425 A1	21-05-2001
			IT MI20001819 A1	04-02-2002
			EP 1101813 A1	23-05-2001
			NO 20005840 A	21-05-2001
			US 6544407 B1	08-04-2003
			ZA 200006696 A	17-05-2001